

Abstract of the Disclosure

This invention provides methods of delivering an antigen to an Class I or Class II MHC receptors to induce immunity against the antigen in a subject having a disease. This invention also provides methods of delivering an antigen to an Class II or class I MHC receptor to suppress immunity against the antigen in a subject having a disease. the ligand-binding APCs to bind to the ligand-coated Ag/ATP-filled particles and APC phagolysosomes to ingest the ligand-coated Ag/ATP-filled particles to facilitate transfer of the ingested antigen from the phagolysosomes into cytoplasm such that the antigen is delivered to a Class II MHC receptor and is expressed on the surface of the APCs (Ag-APCs); d) incubating the Ag-APCs of step (c) with lymphocytes previously removed from the subject having the disease; and e) administering the incubated lymphocytes of step (d) to the subject so as induce Class II MHC presentation and elicit suppressor T-lymphocytes so to suppress immunity against the antigen in the subject.

11
17

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